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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/607,219	06/30/2000	Atsushi Kanda	15.18/5053	8200
24033	7590 07/31/2002			
KONRAD RAYNES VICTOR & MANN, LLP 315 SOUTH BEVERLY DRIVE SUITE 210			EXAMINER	
			QUACH, TUAN N	
BEVERLY HI	BEVERLY HILLS, CA 90212		ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 07/31/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/607,219	KANDA, ATSUSHI				
Office Action Summary	Examiner	Art Unit				
	Tuan Quach	2814				
The MAILING DATE of this communication appo Period for Reply	ears on the cov r sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 30 A	Responsive to communication(s) filed on <u>30 April 2002</u> .					
2a)⊠ This action is FINAL . 2b)□ Thi	☐ This action is FINAL. 2b)☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>48-72</u> is/are pending in the application	n.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>48-72</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9)☐ The specification is objected to by the Examiner						
10)⊠ The drawing(s) filed on <u>30 June 2000</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
if approved, corrected drawings are required in reply to this Office action.						
12) ☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior application from the International But* See the attached detailed Office action for a list of the certified copies of the prior application for a list of the certified copies of the prior application for a list of the certified copies of the prior application for a list of the certified copies of the prior application for a list of the certified copies of the prior application from the prior application from the prior application from the list of the prior application from the prior app	reau (PCT Rule 17.2(a)).	-				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
Notice of References Cited (PTO-892) Interview Summary (PTO-413) Paper No(s) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application (PTO-152) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 12 Other:						
0. D. J.						

Application/Control Number: 09/607,219

Art Unit: 2814

DETAILED ACTION

Claim 53 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 53 erroneously depends from itself.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 48-72 are rejected under 35 U.S.C. 103(a) as being unpatentable over taken with Chen et al. taken with Hall et al.

Chen et al. teach pad 16, passivation 20 comprising silicon oxide 20A and silicon nitride 20B, forming photoresist mask 22, dry etching passivation 20 to the pad 16, including isotropic etching and anisotropic etching. See Fig. 4, column 3 line 40 to column 6 line 43. Although Chen et al. recite the process for etching, e.g., column 5 lines 39-40 and not a method of fabricating a semiconductor device, such application would have been apparent in Chen et al. and obvious to one skilled in the art over Chen et al. as evidenced by Hall et al., column 4 line 20 et seq., wherein the process corresponds to a process for forming a semiconductor device. It would have been obvious and would have been within the purview of one skilled in the art to have selected and optimized the desired film thickness and tapered angle given the angle shown in Chen et al. Figs 3 and 4. Regarding the alternative materials of silicon oxynitride, such is well known passivation materials as evidenced by Hall et al.,

Application/Control Number: 09/607,219

Art Unit: 2814

column 2 lines 27-43 and the selection of suitable alternative materials thus would have been obvious. The completion of the connection including the provision of a bump electrode including a barrier on the exposed bonding pad is well known in the art and thus would have been obvious.

Applicant's arguments with respect to claims 48-72 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Quach whose telephone number is 703-308-1096. The examiner can normally be reached on M - F from 9 to 5.

Application/Control Number: 09/607,219

Art Unit: 2814

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri, can be reached on (703) 306-2794. The fax phone number for the organization where this application or proceeding is assigned is 703-308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

> Tuan Quach Primary Examiner

Thank